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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/562,656	11/24/2006	Toru Masatomi	71,051-026	6287
27305 7590 07/30/2009 HOWARD & HOWARD ATTORNEYS PLLC 450 West Fourth Street Peyed Oak, ML48067			EXAMINER	
			PENG, KUO LIANG	
Royal Oak, MI 48067			ART UNIT	PAPER NUMBER
			1796	
			MAIL DATE	DELIVERY MODE
			07/30/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)		
	10/562,656	MASATOMI ET AL.		
Office Action Summary	Examiner	Art Unit		
	Kuo-Liang Peng	1796		
The MAILING DATE of this communication a Period for Reply	appears on the cover sheet with the	correspondence address		
A SHORTENED STATUTORY PERIOD FOR REF WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory perion. - Failure to reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the may be armed patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATIO 1.136(a). In no event, however, may a reply be ti od will apply and will expire SIX (6) MONTHS fron tute, cause the application to become ABANDONI	N. mely filed n the mailing date of this communication. ED (35 U.S.C. § 133).		
Status				
Responsive to communication(s) filed on 11 This action is FINAL . 2b) □ This action is FINAL . 2b) □ This action is application is in condition for allow closed in accordance with the practice under the condition is in condition.	his action is non-final. vance except for formal matters, pr			
Disposition of Claims				
4) ☐ Claim(s) 1-21 is/are pending in the application 4a) Of the above claim(s) is/are withd 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-21 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and Application Papers 9) ☐ The specification is objected to by the Examination of the drawing(s) filed on is/are: a) ☐ a	rawn from consideration. d/or election requirement. iner.	Examiner.		
Applicant may not request that any objection to the Replacement drawing sheet(s) including the cornal or declaration is objected to by the	ection is required if the drawing(s) is ob	pjected to. See 37 CFR 1.121(d).		
Priority under 35 U.S.C. § 119				
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.				
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 11/21/06.	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal I 6) Other: Machine tra	oate Patent Application		



Application No.

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DETAILED ACTION

1. The Applicants' preliminary amendments filed December 27, 2005 and May 1, 2006 are acknowledged. Claims 2-3, 5-6 and 8-9 are amended. Claims 10-21 are added. Now, Claims 1-21 are pending.

Claim Rejections - 35 USC § 112

2. The following is a quotation of the second paragraph of 35 U.S.C.

112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

3. Claims 1-21 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In Claims 1 (lines 13-15), 5 (line 2), 12 (line 2) and 13 (line 2), it is not clear as to what "types" and/or "type" refer to.

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Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 5. Claims 1-6, 8-14, 16 and 18-21 are rejected under 35 U.S.C. 102(b) as being anticipated by JP765 (JP 10-101765).

JP765 discloses a composition comprising a vinyl polymer derived from a monomer mixture containing vinyl monomer represented by formula (a) where R^1 can be methacryloxypropyl group, n is 0 and m is 3, γ - (meth)acryloxypropyltrimethoxysilane, etc., and alkyl (meth)acrylates in the presence of an azo-based initiator; a condensation catalyst such as an organotitanium compound, an organoaluminum compound, etc.; a solvent; and alkoxysilanes such as γ -aminopropyltri(m)ethoxysilane, etc. ([0006], [0012]-[0029]-[0033], [0050], [0052]-[0054] and Examples) Since the alkoxysilanes read on the claimed coupling agents, Examiner has reasonable basis to believe that JP765's alkoxysilanes can function as coupling agents.

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6. Claims 1-2, 5-6, 8-9, 12-14, 16 and 18-21 are rejected under 35 U.S.C. 102(b) as being anticipated by JP668 (JP 04-103668).

JP668 discloses a composition comprising a polymer derived from a monomer mixture containing monomers (a)-(e). Monomer (a) can be γ-(meth)acryloxypropyltrimethoxysilane, etc., optionally (meth)acryloxyalkyl tris(trialkylsiloxy)silane, Monomer e) can be an alkyl (meth)acrylate.

Monomer d) can be (meth)acryloxypropyl tris(trimethylsiloxy)silane in the presence of an azo-based initiator. (page 3, upper left column to lower left column, page 5, upper left column, page 6, lower columns, page 7, lower right column and Examples) A curing catalyst such as aluminum, titanium or zirconium compound and a solvent can be employed. (page 7, upper right column and page 8, all columns) The English translation of JP668 has been ordered by Examiner. It will be available to Applicants later upon request.

Claim Rejections - 35 USC § 103

- 7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject

matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

8. Claims 7, 15 and 17 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over JP765.

JP322 discloses a composition, *supra*, which in incorporated herein by reference. JP322 is silent on the pencil hardness of the cured coating film. However, since the reference discloses all the limitations of a claim except a property or function, and the examiner cannot determine whether or not the reference inherently possesses properties which anticipate or render obvious the claimed invention but has basis for shifting the burden of proof to applicant as in *In re Fitzgerald*, 619 F.2d 67, 205 USPQ 594 (CCPA 1980).

9. Claims 7, 15 and 17 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over JP668.

JP668 discloses a composition, *supra*, which in incorporated herein by reference. JP668 is silent on the pencil hardness of the cured coating film. However, since the reference discloses all the limitations of a claim except a property or function, and the examiner cannot determine whether or not the

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reference inherently possesses properties which anticipate or render obvious the claimed invention but has basis for shifting the burden of proof to applicant as in *In re Fitzgerald*, 619 F.2d 67, 205 USPQ 594 (CCPA 1980).

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kuo-Liang Peng whose telephone number is (571) 272-1091. The examiner can normally be reached on Monday-Friday from 8:30 AM to 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jim Seidleck, can be reached on (571) 272-1078. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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klp July 23, 2009

> /Kuo-Liang Peng/ Primary Examiner, Art Unit 1796